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CORRECTED VERSION

#### PATENT COOPERATION TREATY

# **PCT**

#### INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 3220 - 75156	FOR FURTHER ACTION	see Form as well as, where ap	see Form PCT/ISA/220 Il as, where applicable, item 5 below.		
International application No.	International filing date (day/month	h/year) (Earliest)	Priority Date (day/month/year)		
PCT/US2004/014097	06/05/2004	:	06/05/2003		
Applicant					
	•				
PURDUE RESEARCH FOUNDATION	N				
This International Search Report has bee according to Article 18. A copy is being tra	n prepared by this International Sea ansmitted to the International Burea	rching Authority and is to	ansmitted to the applicant		
This International Search Report consists	of a total ofsh	eets.			
X It is also accompanied by	a copy of each prior art document o	cited in this report.			
Basis of the report     a. With regard to the language, the language in which it was filed, unlined.	international search was carried ou less otherwise indicated under this i	t on the basis of the inter tem.	national application in the		
The international this Authority (Ru	search was carried out on the basis	of a translation of the in	ternational application furnished to		
b. With regard to any <b>nucle</b>	otide and/or amino acid sequence	e disclosed in the interna	tional application, see Box No. I.		
2. Certain claims were fou	ind unsearchable (See Box II).				
3. X Unity of invention is lac	king (see Box III).				
4. With regard to the title,	•				
the text is approved as su	ubmitted by the applicant.				
[	shed by this Authority to read as follow				
TREATMENT OF LUPUS TAI	RGETING THE MACROPHAG	ES OR THE FOLA	TE RECEPTOR		
·					
			· ·		
			-		
·		•			
5. With regard to the abstract,		•			
	ubmitted by the applicant.	٠.			
the text has been establis	shed, according to Rule 38.2(b), by om the date of mailing of this interna	this Authority as it appea ational search report, sub	rs in Box No. IV. The applicant omit comments to this Authority.		
			·		
6. With regards to the drawings,					
a. the figure of the <b>drawings</b> to be i	published with the abstract is Figure	No3			
X as suggested by	the applicant.				
	is Authority, because the applicant				
as selected by th	nis Authority, because this figure bet	ter characterizes the inv	ention.		
b. none of the figures is to b	pe published with the abstract.		·		

International application No. PCT/US2004/014097

## INTERNATIONAL SEARCH REPORT

Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)
This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
Claims Nos.:     because they relate to subject matter not required to be searched by this Authority, namely:
2. Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)
This International Searching Authority found multiple inventions in this international application, as follows:
see additional sheet
As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. X As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:
Remark on Protest  The additional search fees were accompanied by the applicant's protest.  No protest accompanied the payment of additional search fees.



International Application No. PCT/ US2004/014097

#### FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-3 in part, and 5

Use of a conjugate as claimed in the manufacture of a medicament for treating lupus erythematosus, wherein the group L is a folate, and group X is an immunogen.

2. claims: 1-3 in part, and 6-7

Use of a conjugate as claimed in the manufacture of a medicament for treating lupus erythematosus, wherein the group L is a folate, and group X is a cytotoxin.

3. claims: 1-3 in part, and 8

Use of a conjugate as claimed in the manufacture of a medicament for treating lupus erythematosus, wherein the group L is a folate, and group X is a cytokine.

4. claims: 1 in part, and 4

Use of a conjugate as claimed in the manufacture of a medicament for treating lupus erythematosus, wherein the group L is an antibody or an antibody fragment.

#### IN LERNATIONAL SEARCH REPORT

International Application No PCT/US2004/014097

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 A61K47/48 A61F A61P37/00 A61K51/04 According to International Patent Classification (IPC) or to both national classification and IPC **B. FIELDS SEARCHED** Minimum documentation searched (classification system followed by classification symbols) IPC 7 A61K Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practical, search terms used) EPO-Internal, EMBASE, BIOSIS C. DOCUMENTS CONSIDERED TO BE RELEVANT Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No. Category ° 1-8 WO 02/087424 A (TURK MARY JO; LOW PHILIP Х STEWART (US)) 7 November 2002 (2002-11-07) page 1 figure 4; examples 1-8,11 WO 99/41285 A (MEDAREX INC) 19 August 1999 (1999-08-19) page 48, line 3 - line 23 1,4 X examples iI,II,IV,VI 1-3,5-8 WO 96/36367 A (PURDUE RESEARCH FOUNDATION) Х 21 November 1996 (1996-11-21) examples claims -/--Х Further documents are listed in the continuation of box C. X Patent family members are listed in annex. ° Special categories of cited documents : "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier document but published on or after the international "X" document of particular relevance; the claimed invention filing date cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed "&" document member of the same patent family Date of the actual completion of the international search Date of mailing of the international search report **19**. **11**. 2004 11 November 2004 Name and mailing address of the ISA Authorized officer European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016 Dullaart, A

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### IN1 \_RNATIONAL SEARCH REPORT

International Application No
PCT/US2004/014097

	ation) DOCUMENTS CONSIDERED TO BE RELEVANT	Relevant to claim No.
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Helevant to Claim No.
X	REDDY J A ET AL: "FOLATE-MEDIATED TARGETING OF THERAPEUTIC AND IMAGING AGENTS TO CANCERS" CRITICAL REVIEWS IN THERAPEUTIC DRUG CARRIER SYSTEMS, vol. 15, no. 6, 1998, pages 587-627, XP000901554 ISSN: 0743-4863 abstract page 594, paragraph V - page 602; table 4	1-3,5-8
X	WO 01/74382 A (PURDUE RESEARCH FOUNDATION) 11 October 2001 (2001-10-11) examples	1-8
X	NAKASHIMA-MATSUSHITA N ET AL: "Selective expression of folate receptor beta and its possible role in methotrexate transport in synovial macrophages from patients with rheumatoid arthritis" ARTHRITIS AND RHEUMATISM, LIPPINCOTT, PHILADELPHIA, US, vol. 42, no. 8, August 1999 (1999-08), pages 1609-1616, XP002284073 ISSN: 0004-3591 abstract	1-3,5-8
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X	WO 98/58678 A (DEN HARTOG MARCEL THEODORUS; BOER MARK DE (NL); PANGENETICS B V (NL)) 30 December 1998 (1998-12-30) page 3 examples claims 14-16	1,4
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.17.

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Information on patent family members

International Application No
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